BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Comprehensive Development of Maruthinagara 3rd main and Cross Roads and surrounding areas in Kempegowda Ward no -01.

Estimation Cost.Rs 20000000.00

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27,(8km lead = 57+2*1.28X8)								
	SSM Culvert								
	1st main 23rd Cross Road	Cum	4	7.00	0.60	0.90	15.12		
	1st main 25th Cross Road	Cum	2	6.00	0.60	0.90	6.48		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**449.54**							
	Total						**21.60**	**449.54**	**9710.06**
2	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)								
	Culvert Cover Slab								
	Deck Slab								
	1st main 23rd Cross Road	Cum	2	7.00	1.50	0.20	4.2		
	1st main 25th Cross Road	Cum	1	6.00	1.50	0.20	1.8		
	Basic rate	557.00							
	Area weightage 6%	33.42							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**667.90**							
	Total						**6.00**	**667.90**	**4007.40**
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1),(8km lead = 57+2*1.28X8)								
	New Drain								
	3rd main 5th Cross road								
	RHS	Cum	1	163.00	0.90	1.05	153.74		
	3rd main 10th Cross Road								
	LHS	Cum	1	141.00	0.90	1.05	133.25		
	New Culvert								
	1st main 23rd Cross Road	Cum	2	7.00	1.70	1.10	26.18		
	1st main 25th Cross Road	Cum	1	6.00	1.70	1.10	11.22		
	Cross Road	Cum	1	4.10	1.40	1.10	6.31		
	Drain Desilting								
	3rd main 9th Cross Road left Side	Cum	2	158.00	0.45	0.50	71.10		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	9th Cross Road 3rd Main Right	Cum	2	176.00	0.45	0.50	79.20		
	4th Cross Road 3rd main Right Side	Cum	2	151.00	0.45	0.50	67.95		
	1st main 23rd Cross Road	Cum	2	310.00	0.45	0.50	139.50		
	1st main 24th Cross Road	Cum	2	310.00	0.45	0.50	139.50		
	1st main 25th Cross Road	Cum	1	314.00	0.45	0.50	70.65		
	12th cross Road								
	LHS	Cum	1	50.70	0.45	0.50	11.41		
	RHS	Cum	1	104.50	0.45	0.50	23.51		
	3rd main 10th Cross Road								
	RHS	Cum	1	141.00	0.45	0.50	31.73		
	Over Burden								
	1st main 24th Cross Road	Cum	1	10.00	1.10	0.50	5.50		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**215.28**							
	Total						**970.75**	**215.28**	**208982.11**
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	9th Cross Road 3rd Main Right	Sqm	2	176.00	0.75		264.00		
	4th Cross Road 3rd main Right Side	Sqm	2	151.00	0.75		226.50		
	1st main 23rd Cross Road	Sqm	2	310.00	0.75		465.00		
	1st main 24th Cross Road	Sqm	2	310.00	0.75		465.00		
	1st main 25th Cross Road	Sqm	1	314.00	0.75		235.50		
	12th cross Road	Sqm							
	LHS	Sqm	1	50.70	0.75		38.03		
	RHS	Sqm	1	104.50	0.75		78.38		
	3rd main 10th Cross Road								
	RHS	Sqm	1	141.00	0.75		105.75		
					Sub Total		**1878.15**		
					Total		**1878.15**		
	Deduct 70% for Missing/Damaged						**1314.71**		
							563.45		
	Consider 30% Qnty for Removing & Refixing						**169.03**		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						**169.03**	**111.30**	**18813.43**
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd main 5th Cross road								
	RHS	Cum	1	163.00	0.90	0.15	22.59		
	3rd main 10th Cross Road								
	LHS	Cum	1	141.00	0.90	0.15	19.04		
	New Culvert								
	1st main 23rd Cross Road	Cum	2	7.00	1.70	0.15	3.57		
	1st main 25th Cross Road	Cum	1	6.00	1.70	0.15	1.53		
	Cross Road	Cum	1	4.10	1.40	0.15	0.86		
	Road PCC								
	3rd main 9th Cross Road left Side	Cum	1	158.00	4.70	0.15	111.39		
	4th Cross Road 3rd main Right Side	Cum	1	151.00	4.40	0.15	99.66		
	12th cross Road	Cum	1	125.00	4.80	0.15	90.00		
	3rd main 10th Cross Road	Cum	1	141.00	4.00	0.15	84.60		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**433.24**	**5421.90**	**2348972.03**
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	3rd main 5th Cross road								
	RHS	Cum	1	163.00	0.75	0.15	18.83		
	3rd main 10th Cross Road								
	LHS	Cum	1	141.00	0.75	0.15	15.86		
	Side Walls								
	3rd main 5th Cross road								
	RHS	Cum	2	163.00	0.15	0.75	36.68		
	3rd main 10th Cross Road								
	LHS	Cum	2	141.00	0.15	0.75	31.73		
					Sub Total		**103.09**		
	New Culvert								
	Bottom Raft								
	1st main 23rd Cross Road	Cum	2	7.00	1.50	0.20	4.20		
	1st main 25th Cross Road	Cum	1	6.00	1.50	0.20	1.80		
	Cross Road	Cum	1	4.10	1.20	0.20	0.98		
	Side Walls								
	1st main 23rd Cross Road	Cum	4	7.00	0.20	0.75	4.20		
	1st main 25th Cross Road	Cum	2	6.00	0.20	0.75	1.80		
	Cross Road	Cum	2	4.10	0.20	0.75	1.23		

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
				Sub Total		14.21		
Basic rate	6670.00							
Area weightage 6%	400.20							
Sub Total	7070.20							
Total						117.30	7070.20	829355.67

KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2

For Drain	Cum	From item no.6				103.09		
	kg	Steel assumed 60Kg/Cum of Concrete				6185.34		
	tonne					6.19		
For Culvert	Cum	From item No 06				14.21		
	kg	Steel assumed 90Kg/Cum of Concrete				1279.26		
	tonne					1.28		
Basic rate	61365.00							
Area weightage 6%	3681.90							
Sub Total	65046.90							
Total						7.46	65046.90	485549.09

Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)

Provide 70% for Missing/Damaged	Sqm	From Item No. 4				1314.71		
New cover Slab								
3rd main 5th Cross road								
RHS	Sqm	1	163.00	0.75		122.25		
3rd main 10th Cross Road								
LHS	Sqm	1	141.00	0.75		105.75		
Data Rate	2337.00							
Total						1542.71	2337.00	3605301.59

Suply And Fixing precast concrete Slab 15cm thick including Cost Of reinforcement as per design and drawing materail cost transportation here Charge of Machinary cutting the vertical face to get plain even surface etc complete with all leads and lifts conveynce charges labour charges inclusive of cost of all materials and as per the directions of the Engineer-in-charge of the work .

New Cover Slab								
3rd main 9th Cross Road left Side	Sqm	2	158.00	0.75		237.00		
Data Rate	2493.00							
Total						237.00	2493.00	590841.00

Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha

New Culvert								
1st main 23rd Cross Road	Sqm	2	7.00	1.50		21.00		
1st main 25th Cross Road	Sqm	1	6.00	1.50		9.00		

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Cross Road	Sqm	1	4.10	1.20		4.92		
Data rate	**5418.00**							
Total						**34.92**	**5418.00**	**189196.56**

KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)

New kerb stone								
1st main 23rd Cross Road	Cum	2	310.00	0.20	0.10	12.40		
1st main 24th Cross Road	Cum	2	310.00	0.20	0.10	12.40		
1st main 25th Cross Road	Cum	1	314.00	0.20	0.10	6.28		
Drain Coping Concrete								
1st main 23rd Cross Road	Cum	4	310.00	0.15	0.15	27.90		
1st main 24th Cross Road	Cum	4	310.00	0.15	0.15	27.90		
1st main 25th Cross Road	Cum	2	314.00	0.15	0.15	14.13		
Basic rate	5422.00							
Area weightage 6%	325.32							
Sub Total	**5747.32**							
Total						**101.01**	**5747.32**	**580536.79**

Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)

New kerb stone								
1st main 23rd Cross Road		2	310.00			620.00		
1st main 24th Cross Road		2	310.00			620.00		
1st main 25th Cross Road		1	314.00			314.00		
				Sub Total		**1554.00**		
						1554.00		
Total length								
No of Kerb Stones	Nos	Total Length/0.45				3453.33		
Total	Nos					**3454.00**		
Basic rate	408.00							
Area weightage 6%	24.48							
Sub Total	**432.48**							
Total						**3454.00**	**432.48**	**1493785.92**

KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)

New kerb stone								
1st main 23rd Cross Road	Sqm	2	310.00		0.40	248.00		
1st main 24th Cross Road	Sqm	2	310.00		0.40	248.00		
1st main 25th Cross Road	Sqm	1	314.00		0.40	125.60		
Basic rate	80.00							
Area weightage 6%	4.80							
Sub Total	**84.80**							
Total						**621.60**	**84.80**	**52711.68**

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) (8km lead = 2*1.28X8)								
Road cut portion								
3rd main Road	Cum	1	43.00	1.00	0.23	9.89		
1st main 23rd Cross Road	Cum	1	65.00	1.20	0.23	17.94		
1st main 24th Cross Road	Cum	1	90.00	1.10	0.23	22.77		
1st main 25th Cross Road	Cum	1	64.00	1.30	0.23	19.14		
Basic rate	41.00							
Area weightage 6%	2.46							
8Km lead= (2*1.28*8)	20.48							
Sub Total	**63.94**							
Total						**69.74**	**63.94**	**4458.92**
KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
3rd main 9th Cross Road left Side	Sqm	1	158	4.70		742.60		
12th cross Road	Sqm	1	125	4.80		600.00		
Basic rate	39.00							
Area weightage 6%	2.34							
Sub Total	41.34							
Total						**1342.60**	**41.34**	**55503.08**
KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
3rd main 9th Cross Road left Side								
4th Cross Road 3rd main	Sqm	1	151	4.40		664.40		
12th cross Road	Sqm	1	125	4.80		600.00		
3rd main 10th Cross Road	Sqm	1	141	4.00		564.00		
Basic rate	6.00							
Area weightage 6%	0.36							
Sub Total	6.36							
Total						**1828.40**	**6.36**	**11628.62**
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet **mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
Road cut portion								
3rd main Road	Cum	1	43	1.00	0.23	9.89		
1st main 23rd Cross Road	Cum	1	65	1.20	0.23	17.94		
1st main 24th Cross Road	Cum	1	90	1.10	0.23	22.77		
1st main 25th Cross Road	Cum	1	64	1.30	0.23	19.14		
Basic rate	1888.00							
Area weightage 6%	113.28							
Sub Total	**2001.28**							

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
Total						**69.74**	**2001.28**	**139561.26**
KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
Road cut portion								
3rd main Road	Sqm	1	43	1.00		43.00		
1st main 23rd Cross Road	Sqm	1	65	1.20		78.00		
1st main 24th Cross Road	Sqm	1	90	1.10		99.00		
1st main 25th Cross Road	Sqm	1	64	1.30		83.20		
Basic rate	21.00							
Area weightage 6%	1.26							
Sub Total	**22.26**							
Total						**303.20**	**22.26**	**6749.23**
KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Sqm	From Item No. 18				303.20		
for old Road Provide 25% Profile Correction	Sqm	from item no 21 =(9422.80X25%)=2355.70				2355.70		
Basic rate	28.00							
Area weightage 6%	1.68							
Sub Total	**29.68**							
Total						**2658.90**	**29.68**	**78916.15**
KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
old Road								
for old Road Provide 25% Profile Correction		from item no 21 =(9422.80X25%)=2355.70				9422.80		
	Cum		2355.70		0.05	117.79		
Road cut portion								
3rd main Road	Cum	1	43	1.00	0.05	2.15		
1st main 23rd Cross Road	Cum	1	65	1.20	0.05	3.90		
1st main 24th Cross Road	Cum	1	90	1.10	0.05	4.95		
1st main 25th Cross Road	Cum	1	64	1.30	0.05	4.16		
Basic rate	6045.00							
Area weightage 6%	362.70							
Sub Total	**6407.70**							
Total						**132.95**	**6407.70**	**851871.68**
KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
Old Roads								
3rd main Road	Sqm	1	510	6.70		3417.00		
1st main 23rd Cross Road	Sqm	1	310	6.20		1922.00		
1st main 24th Cross Road	Sqm	1	310	7.40		2294.00		

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1st main 25th Cross Road	Sqm	1	314	5.70		1789.80		
				Sub Total		9422.80		
Basic rate	5.00							
Area weightage 6%	0.30							
Sub Total	**5.30**							
Total						9422.80	5.30	49940.84

KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)

	Sqm	From Item No. 21				9422.80		
Basic rate	12.00							
Area weightage 6%	0.72							
Sub Total	**12.72**							
Total						9422.80	12.72	119858.02

Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)

For old Roads								
3rd main Road	Cum	1	510	6.70	0.04	136.68		
1st main 23rd Cross Road	Cum	1	310	6.20	0.04	76.88		
1st main 24th Cross Road	Cum	1	310	7.40	0.04	91.76		
1st main 25th Cross Road	Cum	1	314	5.70	0.04	71.59		
Basic rate	7111.00							
Area weightage 6%	426.66							
Sub Total	**7537.66**							
Total						376.91	7537.66	2841034.51

KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)

For old Roads								
3rd main Road								
at centre	Sqm	0.5	510.00	0.10		25.50		
at Edge	Sqm	2	510.00	0.10		102.00		
1st main 23rd Cross Road								
at centre	Sqm	0.5	310.00	0.10		15.50		
at Edge	Sqm	2	310.00	0.10		62.00		
1st main 24th Cross Road								
at centre	Sqm	0.5	310.00	0.10		15.50		
at Edge	Sqm	2	310.00	0.10		62.00		
1st main 25th Cross Road								
at centre	Sqm	0.5	314.00	0.10		15.70		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	at Edge	Sqm	2	314.00	0.10		62.80		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	454.74							
	Total						361.00	454.74	164161.14
.00	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1									
	3rd main 9th Cross Road left Side	Cum	1	158.00	4.70	0.15	111.39		
	4th Cross Road 3rd main Right Side	Cum	1	151.00	4.40	0.15	99.66		
	12th cross Road	Cum	1	125.00	4.80	0.15	90.00		
	3rd main 10th Cross Road	Cum	1	141.00	4.00	0.15	84.60		
	Basic rate	4916.00							
	Area weightage 6%	294.96							
	sub Total	5210.96							
	Total						385.65	5210.96	2009606.72
								Grand Total	16751053.51
								GST Charges (12% of estimated cost)	2010126.42
								DPR Charges (1% of estimated cost)	200000.00
								Project management And Consultancy Charges(1% of estimated cost)	200000.00
								Tender Premium (5% of estimated Cost)	837552.68
								Miscellenious and rounding	1267.40
								Total Amount	20000000.00
								RUPEES TWO CRORE ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

AME OF WORK: Comprehensive Development of Eastern Side of Kamakshamma Layout and Surrounding Areas in Chowdeshwari Ward No-02

Estimation Cost.Rs 15000000.00

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27, (8km lead = 57+2*1.28X8)								
	SSM Culvert								
	Kamakshamma Layout Main Road	Cum	2	5.50	0.60	0.90	5.94		
		Cum	2	5.50	0.60	0.90	5.94		
		Cum	2	5.00	0.60	0.90	5.40		
	10th Cross Road	Cum	2	4.00	0.60	0.90	4.32		
	11th Cross Road	Cum	2	4.50	0.60	0.90	4.86		
		Cum	2	7.50	0.60	0.90	8.10		
		Cum	2	5.00	0.60	0.90	5.40		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**449.54**							
	Total						**39.96**	**449.54**	**17963.62**
2	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)								
	Drain								
	Deck Slab								
	Kamakshamma Layout Main Road	Cum	1	194.00	1.35	0.125	32.74		
	Culvert								
	Deck Slab								
	Kamakshamma Layout Main Road	Cum	1	5.50	1.50	0.23	1.90		
		Cum	1	5.50	1.50	0.23	1.90		
		Cum	1	5.00	1.50	0.23	1.73		
		Cum	1	4.00	1.20	0.23	1.10		
	10th Cross Road	Cum	1	4.50	1.80	0.23	1.86		
	11th Cross Road	Cum	1	7.50	1.80	0.23	3.11		
		Cum	1	5.00	1.80	0.23	2.07		
		Cum	11	6.00	1.50	0.23	22.77		
	Main Road	Cum	1	5.50	1.50	0.23	1.90		
	2nd Main Road								
	Drain								
	Bottom Raft								
	Kamakshamma Layout Main Road	Cum	1	194.00	1.20	0.15	34.92		
	Main Road	Cum	2	250.00	0.90	0.10	45.00		
	2nd Main Road								
	LHS	Cum	1	158.50	0.90	0.15	21.40		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	5th Cross Road	Cum	2	50.00	0.75	0.15	11.25		
	4th Cross Road	Cum	2	57.00	0.75	0.15	12.83		
	3rd Cross Road	Cum	2	62.00	0.75	0.15	13.95		
	Side Walls								
	Kamakshamma Layout Main Road	Cum	2	194.00	0.15	0.90	52.38		
	Main Road	Cum	4	250.00	0.10	0.90	90.00		
	2nd Main Road								
	LHS	Cum	1	158.50	0.15	0.60	14.27		
	5th Cross Road	Cum	2	50.00	0.15	0.60	9.00		
	4th Cross Road	Cum	2	57.00	0.15	0.60	10.26		
	3rd Cross Road	Cum	2	62.00	0.15	0.60	11.16		
	Culvert								
	Bottom Raft								
	Main Road	Cum	11	6.00	1.50	0.20	19.80		
	2nd Main Road	Cum	3	5.40	1.50	0.20	4.86		
		Cum	1	5.50	1.50	0.20	1.65		
	Side Walls								
	Main Road	Cum	22	6.00	0.20	0.90	23.76		
	2nd Main Road	Cum	6	5.40	0.20	0.60	3.89		
		Cum	2	5.50	0.20	0.60	1.32		
	Basic rate	557.00							
	Area weightage 6%	33.42							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**667.90**					**452.75**	**667.90**	**302393.39**
	Total								
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) (8km lead = 57+2*1.28X8)								
	New Drain								
	Kamakshamma Layout Main Road	Cum	1	194.00	1.50	1.35	392.85		
	Main Road	Cum	2	250.00	1.20	1.10	660.00		
	2nd Main Road								
	LHS	Cum	1	158.50	1.20	1.05	199.71		
	5th Cross Road	Cum	2	50.00	1.05	1.05	110.25		
	4th Cross Road	Cum	2	57.00	1.05	1.05	125.69		
	3rd Cross Road	Cum	2	62.00	1.05	1.05	136.71		
	Cross Road	Cum	1	68.00	1.05	1.05	74.97		
	Cross Road	Cum	1	74.00	1.05	1.05	81.59		
	New Culvert								
	Kamakshamma Layout Main Road	Cum	1	5.50	2.10	1.35	15.59		
		Cum	1	5.50	2.10	1.35	15.59		
		Cum	1	5.00	2.10	1.35	14.18		
		Cum	1	4.00	2.10	1.35	11.34		
	10th Cross Road	Cum	1	4.50	2.10	1.35	12.76		
	11th Cross Road	Cum	1	7.50	2.10	1.35	21.26		
		Cum	1	5.00	2.10	1.35	14.18		
		Cum	11	6.00	1.80	1.15	136.62		
	Main Road	Cum	3	5.40	1.80	1.10	32.08		
	2nd Main Road	Cum	1	5.50	1.80	1.10	10.89		
		Cum							

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Basic rate	130.00							
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*4)	77.48							
	Sub Total	215.28							
	Total						2066.24	215.28	444820.36
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	Drain								
	Main Road	Sqm	2	250.00	0.90		450.00		
	2nd Main Road								
	LHS	Sqm	1	158.50	0.90		142.65		
	5th Cross Road	Sqm	2	50.00	0.75		75.00		
	4th Cross Road	Sqm	2	57.00	0.75		85.50		
	3rd Cross Road	Sqm	2	62.00	0.75		93.00		
						Sub Total	**846.15**		
						Total	**846.15**		
	Deduct 50% for Missing/Damaged						**423.08**		
							423.08		
	Consider 50% Qnty for Removing & Refixing						**211.54**		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**					**211.54**	**111.30**	**23544.12**
	Total								
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Kamakshamma Layout Main Road	Cum	1	194.00	1.50	0.15	43.65		
	Main Road	Cum	2	250.00	1.20	0.15	90.00		
	2nd Main Road								
	LHS	Cum	1	158.50	1.20	0.15	28.53		
	5th Cross Road	Cum	2	50.00	1.05	0.15	15.75		
	4th Cross Road	Cum	2	57.00	1.05	0.15	17.96		
	3rd Cross Road	Cum	2	62.00	1.05	0.15	19.53		
	Cross Road	Cum	1	68.00	1.05	0.15	10.71		
	Cross Road	Cum	1	74.00	1.05	0.15	11.66		
	New Culvert								
	Kamakshamma Layout Main Road	Cum	1	5.50	2.10	0.15	1.73		
		Cum	1	5.50	2.10	0.15	1.73		
		Cum	1	5.00	2.10	0.15	1.58		
		Cum	1	4.00	2.10	0.15	1.26		
	10th Cross Road	Cum	1	4.50	2.10	0.15	1.42		
	11th Cross Road	Cum	1	7.50	2.10	0.15	2.36		
		Cum	1	5.00	2.10	0.15	1.58		
		Cum	11	6.00	1.80	0.15	17.82		
	Main Road	Cum							

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	2nd Main Road	Cum	3	5.40	1.80	0.15	4.37		
		Cum	1	5.50	1.80	0.15	1.49		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						273.11	5421.90	1480796.80
5	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	Kamakshamma Layout Main Road	Cum	1	194.00	1.20	0.20	46.56		
	Main Road	Cum	2	250.00	0.90	0.15	67.50		
	2nd Main Road								
	LHS	Cum	1	158.50	0.90	0.15	21.40		
	5th Cross Road	Cum	2	50.00	0.75	0.15	11.25		
	4th Cross Road	Cum	2	57.00	0.75	0.15	12.83		
	3rd Cross Road	Cum	2	62.00	0.75	0.15	13.95		
	Cross Road	Cum	1	68.00	0.75	0.15	7.65		
	Cross Road	Cum	1	74.00	0.75	0.15	8.33		
	Side Walls								
	Kamakshamma Layout Main Road	Cum	2	194.00	0.20	1.00	77.60		
	Main Road	Cum	4	250.00	0.15	0.80	120.00		
	2nd Main Road						0.00		
	LHS	Cum	2	158.50	0.15	0.75	35.66		
	5th Cross Road	Cum	4	50.00	0.15	0.75	22.50		
	4th Cross Road	Cum	4	57.00	0.15	0.75	25.65		
	3rd Cross Road	Cum	4	62.00	0.15	0.75	27.90		
	Cross Road	Cum	2	68.00	0.15	0.75	15.30		
	Cross Road	Cum	2	74.00	0.15	0.75	16.65		
						Sub Total	530.72		
	New Culvert								
	Bottom Raft								
	Kamakshamma Layout Main Road	Cum	1	5.50	1.80	0.20	1.98		
		Cum	1	5.50	1.80	0.20	1.98		
		Cum	1	5.00	1.80	0.20	1.80		
		Cum	1	4.00	1.80	0.20	1.44		
	10th Cross Road	Cum	1	4.50	1.80	0.20	1.62		
	11th Cross Road	Cum	1	7.50	1.80	0.20	2.70		
		Cum	1	5.00	1.80	0.20	1.80		
		Cum	11	6.00	1.50	0.20	19.80		
	Main Road	Cum	3	5.40	1.50	0.20	4.86		
	2nd Main Road	Cum	1	5.50	1.50	0.20	1.65		
		Cum							
	Side Walls								
	Kamakshamma Layout Main Road	Cum	2	5.50	0.20	1.00	2.20		
		Cum	2	5.50	0.20	1.00	2.20		
		Cum	2	5.00	0.20	1.00	2.00		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	10th Cross Road	Cum	2	4.00	0.20	1.00	1.60		
	11th Cross Road	Cum	2	4.50	0.20	1.00	1.80		
		Cum	2	7.50	0.20	1.00	3.00		
		Cum	2	5.00	0.20	1.00	2.00		
	Main Road	Cum	22	6.00	0.20	0.80	21.12		
	2nd Main Road	Cum	6	5.40	0.20	0.75	4.86		
		Cum	2	5.50	0.20	0.75	1.65		
						Sub Total	82.06		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						612.78	7070.20	4332477.16
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.6				530.72		
		kg	Steel assumed 60Kg/Cum of Concrete				31843.20		
		tonne					31.84		
	For Culvert	Cum	From item No 06				82.06		
		kg	Steel assumed 90Kg/Cum of Concrete				7385.40		
		tonne					7.39		
	Basic rate	61365.00							
	Area weightage 6%	3681.90							
	Sub Total	65046.90					39.23	65046.90	2551698.82
	Total								
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Provide 50% for Missing/Damaged		From item No 04				423.08		
	Cross Road	Sqm	1.00	68.00	0.75		51.00		
	Cross Road	Sqm	1.00	74.00	0.75		55.50		
	Data Rate	2337.00					529.58	2337.00	1237616.78
	Total								
9	Suply And Fixing precast concrete Slab 15cm thick including Cost Of reinforcement as per design and drawing materail cost transportation here Charge of Machinary cutting the vertical face to get plain even surface etc complete with all leads and lifts conveynce charges labour charges inclusive of cost of all materials and as per the directions of the Engineer-in-charge of the work .								
	New Cover Slab								
	Kamakshamma Layout Main Road	Sqm	1	194.00	1.20		232.80		
	Data Rate	2493.00					232.80	2493.00	580370.40
	Total								
10	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	New Culvert								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Kamakshamma Layout Main Road	Sqm	1	5.50	1.80		9.90		
		Sqm	1	5.50	1.80		9.90		
		Sqm	1	5.00	1.80		9.00		
	10th Cross Road	Sqm	1	4.00	1.80		7.20		
	11th Cross Road	Sqm	1	4.50	1.80		8.10		
		Sqm	1	7.50	1.80		13.50		
		Sqm	1	5.00	1.80		9.00		
	Main Road	Sqm	11	6.00	1.50		99.00		
	2nd Main Road	Sqm	3	5.40	1.50		24.30		
		Sqm	1	5.50	1.50		8.25		
	Data rate	**5418.00**							
	Total						**198.15**	**5418.00**	**1073576.70**
1	**Removing and resetting of kerb stones**								
		m							
	Main Road	m	2	250.00			500.00		
						Total	**500.00**		
	Deduct 50% for Missing/Damaged						**250.00**		
	Consider 50% Qnty for Removing & Refixing						**250.00**		
	Basic rate	99.00							
	Area weightage 6%	5.94							
	Sub Total	**104.94**					**250.00**	**104.94**	**26235.00**
	Total								
2.00	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Kerb								
	Main Road	Cum	2	250.00	0.20	0.10	10.00		
	2nd Main Road								
	LHS	Cum	1	158.50	0.20	0.10	3.17		
	Basic rate	5422.00							
	Area weightage 6%	325.32							
	Sub Total	**5747.32**					**13.17**	**5747.32**	**75692.20**
	Total								
13.00	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	Provide 60% qnty for missing and Damaged		From item No .11				**250.00**		
	2nd Main Road		1	158.50			158.50		
	LHS					**Sub Total**	**408.50**		
							408.50		
	Total length								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	No of Kerb Stones	Nos			Total Length/0.45		907.78		
	Total	Nos					908		
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Sub Total	432.48							
	Total						908	432.48	392691.84
.00	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. litem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Kerb								
	Main Road	Sqm	2	250.00		0.40	200.00		
	2nd Main Road								
	LHS	Sqm	1	158.50		0.40	63.40		
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Sub Total	84.80							
	Total						263.40	84.80	22336.32
								Grand Total	12562213.51
								DPR Charges (1% of estimated cost)	150000.00
								Project management And Consultancy Charges(1% of estimated cost)	150000.00
								GST Charges (12% of estimated cost)	1507465.62
								Tender Premium (5% of estimated Cost)	628110.68
								Miscellenious and rounding	2210.19
								Total Amount	15000000.00
								RUPEES ONE CRORE FIFTY LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF WORK:-Comprehensive Development of Roads and Drains at Mathru Layout Someshwara Nagara Sharada Nagara and Surrounding Areas in Ward No -04 of Yelahanka New Town Sub Division

									Estimation Cost.Rs	30000000.00
No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount	
	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)									
	Culvert Deck Slab									
	Someshwara Nagara									
	5th A Cross Road	Cum	1	5.30	1.80	0.23	2.19			
	3rd A Cross Road	Cum	1	6.50	1.80	0.23	2.69			
	1st A Cross Road	Cum	1	7.80	1.80	0.23	3.23			
	Basic rate	557.00								
	Area weightage 6%	33.42								
	8Km lead & Lift= 57+(2*1.28*8)	77.48								
	Sub Total	**667.90**								
	Total						**8.11**	**667.90**		**5419.61**
2	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) (8km lead = 57+2*1.28X8)									
	New Drain									
	Sharadha Nagar									
	6th Cross Road	Cum	2	87.00	1.10	0.90	172.26			
	5th Main Road	Cum	2	59.00	1.10	0.90	116.82			
	6th Main Road	Cum	2	58.00	1.10	0.90	114.84			
	8th Cross Road	Cum	2	126.00	0.95	0.90	215.46			
	7th Main Road	Cum	2	56.00	1.10	0.90	110.88			
	From Tata Centre to 4th Cross Road	Cum	2	93.00	1.10	0.90	184.14			
	Sharadhanagara Arch Wind Gate apartment	Cum	2	158.00	1.10	0.90	312.84			
	1st Main Road	Cum	2	142.00	1.10	0.90	281.16			
	Someshwara Nagara									
	1st B Cross Road	Cum	2	97.00	1.10	0.90	192.06			
	2nd B Cross Road	Cum	2	76.00	1.10	0.90	150.48			
	4th B Cross Road	Cum	2	192.00	1.10	0.90	380.16			
	Muneshwara Nagara									
	5th B Cross Road	Cum	1	90.00	1.10	0.90	89.10			
	RHS	Cum	2	77.00	1.10	0.90	152.46			
	4th Cross Road	Cum	2	125.00	1.10	0.90	247.50			
	4th A Cross Road	Cum								
	Someshwara Nagara									
	5th A Cross Road	Cum	2	50.00	1.10	0.90	99.00			
	3rd A Cross Road	Cum	2	99.00	1.10	0.90	196.02			
	1st A Cross Road	Cum	2	123.00	1.10	0.90	243.54			
	New Culvert									
	Someshwara Nagara									
	5th A Cross Road	Cum	1	5.30	1.40	0.85	6.31			

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd A Cross Road	Cum	1	6.50	1.40	0.85	7.74		
	1st A Cross Road	Cum	1	7.80	1.40	0.85	9.28		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	215.28							
	Total						3282.04	215.28	706558.43
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	Sharadha Nagar								
	6th Cross Road	Sqm	2	87.00	0.90		156.60		
	5th Main Road	Sqm	2	59.00	0.90		106.20		
	6th Main Road	Sqm	2	58.00	0.90		104.40		
	8th Cross Road	Sqm	2	126.00	0.75		189.00		
	7th Main Road	Sqm	2	56.00	0.90		100.80		
	From Tata Centre to 4th Cross Road	Sqm	2	93.00	0.90		167.40		
	Sharadhanagara Arch Wind Gate apartment	Sqm	2	158.00	0.90		284.40		
	1st Main Road	Sqm	2	142.00	0.90		255.60		
	Someshwara Nagara								
	1st B Cross Road	Sqm	2	97.00	0.90		174.60		
	2nd B Cross Road	Sqm	2	76.00	0.90		136.80		
	4th B Cross Road	Sqm	2	192.00	0.90		345.60		
	Muneshwara Nagara								
	5th B Cross Road								
	RHS	Sqm	1	90.00	0.90		81.00		
	4th Cross Road	Sqm	2	77.00	0.90		138.60		
	4th A Cross Road	Sqm	2	125.00	0.90		225.00		
	Someshwara Nagara								
	5th A Cross Road	Sqm	2	50.00	0.90		90.00		
	3rd A Cross Road	Sqm	2	99.00	0.90		178.20		
	1st A Cross Road	Sqm	2	123.00	0.90		221.40		
						Sub Total	2955.60		
						Total	2955.60		
							1477.80		
	Deduct 50% for Missing/Damaged						1477.80		
							738.90		
	Consider 50% Qnty for Removing & Refixing								
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	111.30					738.90	111.30	82239.57
	Total								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Sharadha Nagar								
	6th Cross Road	Cum	2	87.00	1.10	0.15	28.71		
	5th Main Road	Cum	2	59.00	1.10	0.15	19.47		
	6th Main Road	Cum	2	58.00	1.10	0.15	19.14		
	8th Cross Road	Cum	2	126.00	0.95	0.15	35.91		
	7th Main Road	Cum	2	56.00	1.10	0.15	18.48		
	From Tata Centre to 4th Cross Road	Cum	2	93.00	1.10	0.15	30.69		
	Sharadhanagara Arch Wind Gate apartment	Cum	2	158.00	1.10	0.15	52.14		
	1st Main Road	Cum	2	142.00	1.10	0.15	46.86		
	Someshwara Nagara								
	1st B Cross Road	Cum	2	97.00	1.10	0.15	32.01		
	2nd B Cross Road	Cum	2	76.00	1.10	0.15	25.08		
	4th B Cross Road	Cum	2	192.00	1.10	0.15	63.36		
	Muneshwara Nagara								
	5th B Cross Road								
	RHS	Cum	1	90.00	1.10	0.15	14.85		
	4th Cross Road	Cum	2	77.00	1.10	0.15	25.41		
	4th A Cross Road	Cum	2	125.00	1.10	0.15	41.25		
	Someshwara Nagara								
	5th A Cross Road	Cum	2	50.00	1.10	0.15	16.50		
	3rd A Cross Road	Cum	2	99.00	1.10	0.15	32.67		
	1st A Cross Road	Cum	2	123.00	1.10	0.15	40.59		
	New Culvert								
	Someshwara Nagara								
	5th A Cross Road	Cum	1	5.30	1.40	0.15	1.11		
	3rd A Cross Road	Cum	1	6.50	1.40	0.15	1.37		
	1st A Cross Road	Cum	1	7.80	1.40	0.15	1.64		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90					547.24	5421.90	2967058.87
	Total								
5	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	Sharadha Nagar								
	6th Cross Road	Cum	2	87.00	0.90	0.15	23.49		
	5th Main Road	Cum	2	59.00	0.90	0.15	15.93		
	6th Main Road	Cum	2	58.00	0.90	0.15	15.66		
	8th Cross Road	Cum	2	126.00	0.75	0.15	28.35		
	7th Main Road	Cum	2	56.00	0.90	0.15	15.12		
	From Tata Centre to 4th	Cum	2	93.00	0.90	0.15	25.11		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Sharadhanagara Arch Wind Gate apartment	Cum	2	158.00	0.90	0.15	42.66		
	1st Main Road	Cum	2	142.00	0.90	0.15	38.34		
	Someshwara Nagara								
	1st B Cross Road	Cum	2	97.00	0.90	0.15	26.19		
	2nd B Cross Road	Cum	2	76.00	0.90	0.15	20.52		
	4th B Cross Road	Cum	2	192.00	0.90	0.15	51.84		
	Muneshwara Nagara								
	5th B Cross Road								
	RHS	Cum	1	90.00	0.90	0.15	12.15		
	4th Cross Road	Cum	2	77.00	0.90	0.15	20.79		
	4th A Cross Road	Cum	2	125.00	0.90	0.15	33.75		
	Someshwara Nagara								
	5th A Cross Road	Cum	2	50.00	0.90	0.15	13.50		
	3rd A Cross Road	Cum	2	99.00	0.90	0.15	26.73		
	1st A Cross Road	Cum	2	123.00	0.90	0.15	33.21		
	Side Walls								
	Sharadha Nagar								
	6th Cross Road	Cum	4	87.00	0.15	0.60	31.32		
	5th Main Road	Cum	4	59.00	0.15	0.60	21.24		
	6th Main Road	Cum	4	58.00	0.15	0.60	20.88		
	8th Cross Road	Cum	4	126.00	0.15	0.60	45.36		
	7th Main Road	Cum	4	56.00	0.15	0.60	20.16		
	From Tata Centre to 4th Cross Road	Cum	4	93.00	0.15	0.60	33.48		
	Sharadhanagara Arch Wind Gate apartment	Cum	4	158.00	0.15	0.60	56.88		
	1st Main Road	Cum	4	142.00	0.15	0.60	51.12		
	Someshwara Nagara								
	1st B Cross Road	Cum	4	97.00	0.15	0.60	34.92		
	2nd B Cross Road	Cum	4	76.00	0.15	0.60	27.36		
	4th B Cross Road	Cum	4	192.00	0.15	0.60	69.12		
	Muneshwara Nagara								
	5th B Cross Road								
	RHS	Cum	2	90.00	0.15	0.60	16.20		
	4th Cross Road	Cum	4	77.00	0.15	0.60	27.72		
	4th A Cross Road	Cum	4	125.00	0.15	0.60	45.00		
	Someshwara Nagara								
	5th A Cross Road	Cum	4	50.00	0.15	0.60	18.00		
	3rd A Cross Road	Cum	4	99.00	0.15	0.60	35.64		
	1st A Cross Road	Cum	4	123.00	0.15	0.60	44.28		
						Sub Total	**1042.02**		
	New Culvert								
	Bottom Raft								
	Someshwara Nagara								
	5th A Cross Road	Cum	1	5.30	1.20	0.20	1.27		
	3rd A Cross Road	Cum	1	6.50	1.20	0.20	1.56		
	1st A Cross Road	Cum	1	7.80	1.20	0.20	1.87		
	Side Walls								
	Someshwara Nagara								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	5th A Cross Road	Cum	2	5.30	0.20	0.50	1.06		
	3rd A Cross Road	Cum	2	6.50	0.20	0.50	1.30		
	1st A Cross Road	Cum	2	7.80	0.20	0.50	1.56		
						Sub Total	8.62		
	Basic rate	6670.00							
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						1050.64	7070.20	7428263.21
6	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.5				1042.02		
		kg	Steel assumed 60Kg/Cum of Concrete				62521.20		
		tonne					62.52		
	For Culvert	Cum	From item No 05				8.62		
		kg	Steel assumed 90Kg/Cum of Concrete				776.16		
		tonne					0.78		
	Basic rate	61365.00							
	Area weightage 6%	3681.90							
	Sub Total	65046.90					63.30	65046.90	4117297.05
	Total								
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Provide 50% for Missing/Damaged	Sqm	From item no.3				1477.80		
	Data Rate	2337.00					1477.80	2337.00	3453618.60
	Total								
8	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	New Culvert								
	Someshwara Nagara								
	5th A Cross Road	Sqm	1	5.30	1.20		6.36		
	3rd A Cross Road	Sqm	1	6.50	1.20		7.80		
	1st A Cross Road	Sqm	1	7.80	1.20		9.36		
	Data rate	5418.00					23.52	5418.00	127431.36
	Total								
9.00	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	New kerb stone								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	6th Cross Road	Cum	2	87.00	0.20	0.10	3.48		
	5th Main Road	Cum	2	59.00	0.20	0.10	2.36		
	6th Main Road	Cum	2	58.00	0.20	0.10	2.32		
	8th Cross Road	Cum	2	126.00	0.20	0.10	5.04		
	7th Main Road	Cum	2	56.00	0.20	0.10	2.24		
	Sharadhanagara Arch Wind Gate apartment	Cum	2	158.00	0.20	0.10	6.32		
	Someshwara Nagara								
	1st B Cross Road	Cum	2	97.00	0.20	0.10	3.88		
	2nd B Cross Road	Cum	2	76.00	0.20	0.10	3.04		
	4th B Cross Road	Cum	2	192.00	0.20	0.10	7.68		
	Muneshwara Nagara								
	4th Cross Road	Cum	2	77.00	0.20	0.10	3.08		
	4th A Cross Road	Cum	2	125.00	0.20	0.10	5.00		
	Someshwara Nagara								
	5th A Cross Road	Cum	2	50.00	0.20	0.10	2.00		
	3rd A Cross Road	Cum	2	99.00	0.20	0.10	3.96		
	1st A Cross Road	Cum	2	123.00	0.20	0.10	4.92		
	Basic rate	5422.00							
	Area weightage 6%	325.32							
	Sub Total	**5747.32**							
	Total						**55.32**	**5747.32**	**317941.74**
0.00	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	New kerb stone								
	Sharadha Nagar								
	6th Cross Road		2	87.00			174.00		
	5th Main Road		2	59.00			118.00		
	6th Main Road		2	58.00			116.00		
	8th Cross Road		2	126.00			252.00		
	7th Main Road		2	56.00			112.00		
	Sharadhanagara Arch Wind Gate apartment		2	158.00			316.00		
	Someshwara Nagara								
	1st B Cross Road		2	97.00			194.00		
	2nd B Cross Road		2	76.00			152.00		
	4th B Cross Road		2	192.00			384.00		
	Muneshwara Nagara								
	4th Cross Road		2	77.00			154.00		
	4th A Cross Road		2	125.00			250.00		
	Someshwara Nagara								
	5th A Cross Road		2	50.00			100.00		
	3rd A Cross Road		2	99.00			198.00		
	1st A Cross Road		2	123.00			246.00		
						Sub Total	**2766.00**		
							2766.00		
						Total Length/0.45	6146.67		
	Total length						6147.00		
	No of Kerb Stones	Nos							
	Total	Nos							
	Basic rate	408.00							
	Area weightage 6%	24.48							

	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Sub Total	432.48							
	Total						6147.00	432.48	2658454.56
10	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Item no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Sharadha Nagar								
	6th Cross Road	Sqm	2	87.00		0.40	69.60		
	5th Main Road	Sqm	2	59.00		0.40	47.20		
	6th Main Road	Sqm	2	58.00		0.40	46.40		
	8th Cross Road	Sqm	2	126.00		0.40	100.80		
	7th Main Road	Sqm	2	56.00		0.40	44.80		
	Sharadhanagara Arch Wind Gate apartment	Sqm	2	158.00		0.40	126.40		
	Someshwara Nagara								
	1st B Cross Road	Sqm	2	97.00		0.40	77.60		
	2nd B Cross Road	Sqm	2	76.00		0.40	60.80		
	4th B Cross Road	Sqm	2	192.00		0.40	153.60		
	Muneshwara Nagara								
	4th Cross Road	Sqm	2	77.00		0.40	61.60		
	4th A Cross Road	Sqm	2	125.00		0.40	100.00		
	Someshwara Nagara								
	5th A Cross Road	Sqm	2	50.00		0.40	40.00		
	3rd A Cross Road	Sqm	2	99.00		0.40	79.20		
	1st A Cross Road	Sqm	2	123.00		0.40	98.40		
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Sub Total	**84.80**					**1106.40**	**84.80**	**93822.72**
	Total								
12	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading (I No-19.14,P No-143) (8 km lead = 2*1.28X8)								
	Road cut portion								
	Sharadha Nagar								
	6th Main Road	Cum	1	12.00	1.80	0.23	4.97		
	8th Cross Road	Cum	1	17.00	1.80	0.23	7.04		
	7th Main Road	Cum	1	16.00	1.80	0.23	6.62		
	From Tata Centre to 4th Cross Road	Cum	1	14.00	1.80	0.23	5.80		
	Sharadhanagara Arch Wind Gate apartment	Cum	1	17.00	1.80	0.23	7.04		
	1st Main Road	Cum	1	15.00	1.80	0.23	6.21		
	Chickka Bannasandra Main Road	Cum	1	20.00	1.80	0.23	8.28		
	3rd Main Road Chikabannasandra	Cum	1	16.00	1.10	0.23	4.05		
	1st Cross Road Chikkabanasandra	Cum	1	12.00	1.10	0.23	3.04		
	For ugd Cut Portion								
	Chickka Bannasandra Main Road	Cum	1	189.00	1.30	0.38	93.37		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd Main Road Chikabannasandra	Cum	1	86.00	1.30	0.38	42.48		
	1st Cross Road Chikkabanasandra	Cum	1	40.00	1.30	0.38	19.76		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	8Km lead= (2*1.28*8)	20.48							
	Sub Total	**63.94**							
	Total						**208.65**	**63.94**	**13340.95**
3	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For ugd Cut Portion								
	Chickka Bannasandra Main Road	Cum	1	189.00	1.30	0.15	36.86		
	3rd Main Road Chikabannasandra	Cum	1	86.00	1.30	0.15	16.77		
	1st Cross Road Chikkabanasandra	Cum	1	40.00	1.30	0.15	7.80		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						**61.43**	**1994.92**	**122537.96**
4	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road cut portion								
	Sharadha Nagar								
	6th Main Road	Cum	1	12.00	1.80	0.23	4.97		
	8th Cross Road	Cum	1	17.00	1.80	0.23	7.04		
	7th Main Road	Cum	1	16.00	1.80	0.23	6.62		
	From Tata Centre to 4th Cross Road	Cum	1	14.00	1.80	0.23	5.80		
	Sharadhanagara Arch Wind Gate apartment	Cum	1	17.00	1.80	0.23	7.04		
	1st Main Road	Cum	1	15.00	1.80	0.23	6.21		
	Chickka Bannasandra Main Road	Cum	1	20.00	1.80	0.23	8.28		
	3rd Main Road Chikabannasandra	Cum	1	16.00	1.10	0.23	4.05		
	1st Cross Road Chikkabanasandra	Cum	1	12.00	1.10	0.23	3.04		
	For ugd Cut Portion								
	Chickka Bannasandra Main	Cum	1	189.00	1.30	0.23	56.51		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	3rd Main Road	Cum	1	86.00	1.30	0.23	25.71		
	1st Cross Road	Cum	1	40.00	1.30	0.23	11.96		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	2001.28							
	Total						147.22	2001.28	294634.45
15	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	Road cut portion								
	Sharadha Nagar								
	6th Main Road	Sqm	1	12.00	1.80		21.60		
	8th Cross Road	Sqm	1	17.00	1.80		30.60		
	7th Main Road	Sqm	1	16.00	1.80		28.80		
	From Tata Centre to 4th Cross Road	Sqm	1	14.00	1.80		25.20		
	Sharadhanagara Arch Wind Gate apartment	Sqm	1	17.00	1.80		30.60		
	1st Main Road	Sqm	1	15.00	1.80		27.00		
	Chickka Bannasandra Main Road	Sqm	1	20.00	1.80		36.00		
	3rd Main Road Chikabannasandra	Sqm	1	16.00	1.10		17.60		
	1st Cross Road Chikkabanasandra	Sqm	1	12.00	1.10		13.20		
	For ugd Cut Portion								
	Chickka Bannasandra Main Road	Sqm	1	189.00	1.30		245.70		
	3rd Main Road Chikabannasandra	Sqm	1	86.00	1.30		111.80		
	1st Cross Road Chikkabanasandra	Sqm	1	40.00	1.30		52.00		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	22.26					640.10	22.26	14248.63
	Total								
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
		Sqm	From Item No. 15				640.10		
	for old Road Provide 25% Profile Correction	Sqm	from item no18=(5552.30X25%)=1388.08				1372.23		
	Basic rate	28.00							
	Area weightage 6%	1.68							
	Sub Total	29.68					2012.33	29.68	59725.81
	Total								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
17	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	for old Road Provide 25% Profile Correction		from item no18=(5552.30X25%)=1388.08				5488.90		
		Cum		1372.23		0.05	68.61		
	Road cut portion								
	Sharadha Nagar								
	6th Main Road	Cum	1	12.00	1.80	0.05	1.08		
	8th Cross Road	Cum	1	17.00	1.80	0.05	1.53		
	7th Main Road	Cum	1	16.00	1.80	0.05	1.44		
	From Tata Centre to 4th Cross Road	Cum	1	14.00	1.80	0.05	1.26		
	Sharadhanagara Arch Wind Gate apartment	Cum	1	17.00	1.80	0.05	1.53		
	1st Main Road	Cum	1	15.00	1.80	0.05	1.35		
	Chickka Bannasandra Main Road	Cum	1	20.00	1.80	0.05	1.80		
	3rd Main Road Chikabannasandra	Cum	1	16.00	1.10	0.05	0.88		
	1st Cross Road Chikkabanasandra	Cum	1	12.00	1.10	0.05	0.66		
	For ugd Cut Portion								
	Chickka Bannasandra Main	Cum	1	189.00	1.30	0.05	12.29		
	3rd Main Road	Cum	1	86.00	1.30	0.05	5.59		
	1st Cross Road	Cum	1	40.00	1.30	0.05	2.60		
	Basic rate	6045.00							
	Area weightage 6%	362.70							
	Sub Total	6407.70					100.62	6407.70	644718.75
	Total								
18	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Old Roads								
	Sharadha Nagar						417.60		
	6th Cross Road	Sqm	1	87.00	4.80		265.50		
	5th Main Road	Sqm	1	59.00	4.50		249.40		
	6th Main Road	Sqm	1	58.00	4.30		579.60		
	8th Cross Road	Sqm	1	126.00	4.60		268.80		
	7th Main Road	Sqm	1	56.00	4.80		353.40		
	From Tata Centre to 4th Cross Road	Sqm	1	93.00	3.80		821.60		
	Sharadhanagara Arch Wind Gate apartment	Sqm	1	158.00	5.20		667.40		
	1st Main Road	Sqm	1	142.00	4.70		1096.20		
	Chickka Bannasandra Main Road	Sqm	1	189.00	5.80		593.40		
	3rd Main Road		1	86.00	6.90				

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	1st Cross Road Chikkabanasandra	Sqm	1	40.00	4.40		176.00		
						Sub Total	5488.90		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	5.30							
	Total						5488.90	5.30	29091.17
19	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
		Sqm	From Item No. 18				5488.90		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	12.72							
	Total						5488.90	12.72	69818.81
20	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)								
	For old Roads								
	Sharadha Nagar								
	6th Cross Road	Cum	1	87.00	4.80	0.04	16.70		
	5th Main Road	Cum	1	59.00	4.50	0.04	10.62		
	6th Main Road	Cum	1	58.00	4.30	0.04	9.98		
	8th Cross Road	Cum	1	126.00	4.60	0.04	23.18		
	7th Main Road	Cum	1	56.00	4.80	0.04	10.75		
	From Tata Centre to 4th Cross Road	Cum	1	93.00	3.80	0.04	14.14		
	Sharadhanagara Arch Wind Gate apartment	Cum	1	158.00	5.20	0.04	32.86		
	1st Main Road	Cum	1	142.00	4.70	0.04	26.70		
	Chickka Bannasandra Main Road	Cum	1	189.00	5.80	0.04	43.85		
	3rd Main Road Chikabannasandra	Cum	1	86.00	6.90	0.04	23.74		
	1st Cross Road Chikkabanasandra	Cum	1	40.00	4.40	0.04	7.04		
	Basic rate	7111.00							
	Area weightage 6%	426.66							
	Sub Total	7537.66							
	Total						219.56	7537.66	1654938.48
21	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes MORTH Specification No. 803(P.No-182,I No-24.15)								

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Sharadha Nagar								
	6th Cross Road	Sqm	2	87.00	0.10		17.40		
	5th Main Road	Sqm	2	59.00	0.10		11.80		
	6th Main Road	Sqm	2	58.00	0.10		11.60		
	8th Cross Road	Sqm	2	126.00	0.10		25.20		
	7th Main Road	Sqm	2	56.00	0.10		11.20		
	From Tata Centre to 4th Cross Road	Sqm	2	93.00	0.10		18.60		
	Sharadhanagara Arch Wind Gate apartment								
	For Centre	Sqm	0.5	158.00	0.10		7.90		
	For Edges	Sqm	2	158.00	0.10		31.60		
	1st Main Road	Sqm	2	142.00	0.10		28.40		
	Chickka Bannasandra Main Road								
	For Centre	Sqm	0.5	189.00	0.10		9.45		
	For Edges	Sqm	2	189.00	0.10		37.80		
	3rd Main Road Chikabannasandra								
	For Centre	Sqm	0.5	86.00	0.10		4.30		
	For Edges	Sqm	2	86.00	0.10		17.20		
	1st Cross Road Chikkabanasandra	Sqm	2	40.00	0.10		8.00		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	454.74					240.45	454.74	109342.23
	Total								

22 KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)

Road Studs along Road Length						474.00		
Sharadhanagara Arch Wind Gate apartment		3	158.00			567.00		
Chickka Bannasandra Main Road		3	189.00			258.00		
3rd Main Road Chikabannasandra		3	86.00					
				Sub Total		1299.00		
	Nos							

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Provide Studs for every 3m along Road lenth								
	Number of Studs along Road Length			Total length/3			433.00		
	Basic rate	337.00							
	Area weightage 6%	20.22							
	Sub Total	357.22							
	Total						433.00	357.22	154676.26
								Grand Total	25125179.20
								DPR Charges (1% of estimated cost)	300000.00
								Project management And Consultancy Charges(1% of estimated cost)	300000.00
								GST Charges (12% of estimated cost)	3015021.50
								Tender Premium (5% of estimated Cost)	1256258.96
								Miscellenious and rounding	3540.33
								Total Amount	30000000.00
								RUPEES THREE CROREONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Comprehensive Development of Balance Roads and Drains at B sector in Ward no-04 of Yelahanka new town Sub Division

Estimation Cost.Rs 35000000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	18.27 KSRRB M200-15.2. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. iii)Dismantling Stone Masonry. B. Rubble Stone masonry in cement mortar.No. KBS Pg No 140 ,Item No 18.27, (8km lead = 57+2*1.28X8)								
	side wall								
	14th B cross Road B Sector	Cum	1.00	8.20	0.45	0.60	2.2		
	Basic rate	351.00							
	Area weightage 6%	21.06							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**449.54**							
	Total						**2.21**	**449.54**	**995.28**
2	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. Page No. 139, Item No.18.18 and Pg No.136, Item No.17.4,17.1 (8km lead = 57+2*1.28X8)								
	Deck Slab								
	14th B cross Road B Sector	Cum	1	8.20	1.50	0.2	2.46		
	Basic rate	557.00							
	Area weightage 6%	33.42							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**667.90**							
	Total						**2.46**	**667.90**	**1643.03**
3	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) (8km lead = 57+2*1.28X8)								
	New Drain								
	9th B main Road B sector	Cum	2	198.00	1.10	1.20	522.72		
	8th B main Road	Cum	2	232.00	1.10	1.20	612.48		
	11th B cross Road	Cum	2	155.00	1.10	1.20	409.20		
	11th B main Road	Cum	2	241.00	1.10	1.20	636.24		
	10th B main Road								
	RHS	Cum	1	240.00	1.10	1.20	316.80		
	LHS	Cum	1	240.00	1.10	1.20	316.80		
	13th B cross Road								
	RHS	Cum	1	118.00	1.10	1.20	155.76		
	LHS	Cum	1	118.00	1.10	1.20	155.76		
	10th B Cross Road	Cum	2	219.00	1.10	1.20	578.16		
	14th B cross Road B Sector	Cum	2	224.00	1.10	1.20	591.36		
	15th B Cross Road	Cum	2	310.00	1.10	1.20	818.40		
	New Culvert								
		Cum	1	8.20	1.80	1.25	18.45		

S/No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Basic rate	130.00							
	Area weightage 6%	7.80							
	8Km lead & Lift= 57+(2*1.28*8)	77.48							
	Sub Total	**215.28**							
	Total						**5132.13**	**215.28**	**1104844.95**
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Precast Cover Slab								
	9th B main Road B sector	Sqm	2	198.00	1.20		475.20		
	8th B main Road	Sqm	2	232.00	1.20		556.80		
	11th B cross Road	Sqm	2	155.00	0.90		279.00		
	11th B main Road	Sqm	2	241.00	0.90		433.80		
	10th B main Road	Sqm							
	RHS	Sqm	1	240.00	0.90		216.00		
	LHS	Sqm	1	240.00	0.90		216.00		
	13th B cross Road	Sqm							
	RHS	Sqm	1	118.00	0.90		106.20		
	LHS	Sqm	1	118.00	0.90		106.20		
	10th B Cross Road	Sqm	2	219.00	0.90		394.20		
	14th B cross Road B Sector	Sqm	2	224.00	1.20		537.60		
	15th B Cross Road	Sqm	2	310.00	0.90		558.00		
						Sub Total	**3879.00**		
						Total	**3879.00**		
							1939.50		
	Deduct 50% for Missing/Damaged						**1939.50**		
							969.75		
	Consider 50% Qnty for Removing & Refixing								
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**					**969.75**	**111.30**	**107933.18**
	Total								
5	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	9th B main Road B sector	Cum	2	198.00	1.10	0.15	65.34		
	8th B main Road	Cum	2	232.00	1.10	0.15	76.56		
	11th B cross Road	Cum	2	155.00	1.10	0.15	51.15		
	11th B main Road	Cum	2	241.00	1.10	0.15	79.53		
	10th B main Road								
	RHS	Cum	1	240.00	1.10	0.15	39.60		
	LHS	Cum	1	240.00	1.10	0.15	39.60		
	13th B cross Road								
	RHS	Cum	1	118.00	1.10	0.15	19.47		
	LHS	Cum	1	118.00	1.10	0.15	19.47		
	10th B Cross Road	Cum	2	219.00	1.10	0.15	72.27		
	14th B cross Road B Sector	Cum	2	224.00	1.10	0.15	73.92		
	15th B Cross Road	Cum	2	310.00	1.10	0.15	102.30		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	14th B cross Road B Sector	Cum	1	8.20	1.80	0.15	2.21		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						641.42	5421.90	3477736.79
6	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	New Drain								
	Bottom Raft								
	9th B main Road B sector	Cum	2	198.00	0.90	0.15	53.46		
	8th B main Road	Cum	2	232.00	0.90	0.15	62.64		
	11th B cross Road	Cum	2	155.00	0.90	0.15	41.85		
	11th B main Road	Cum	2	241.00	0.90	0.15	65.07		
	10th B main Road								
	RHS	Cum	1	240.00	0.90	0.15	32.40		
	LHS	Cum	1	240.00	0.90	0.15	32.40		
	13th B cross Road	Cum							
	RHS	Cum	1	118.00	0.90	0.15	15.93		
	LHS	Cum	1	118.00	0.90	0.15	15.93		
	10th B Cross Road	Cum	2	219.00	0.90	0.15	59.13		
	14th B cross Road B Sector	Cum	2	224.00	0.90	0.15	60.48		
	15th B Cross Road	Cum	2	310.00	0.90	0.15	83.70		
	Side Walls								
	9th B main Road B sector	Cum	4	198.00	0.15	0.90	106.92		
	8th B main Road	Cum	4	232.00	0.15	0.90	125.28		
	11th B cross Road	Cum	4	155.00	0.15	0.90	83.70		
	11th B main Road	Cum	4	241.00	0.15	0.90	130.14		
	10th B main Road								
	RHS	Cum	2	240.00	0.15	0.90	64.80		
	LHS	Cum	2	240.00	0.15	0.90	64.80		
	13th B cross Road	Cum							
	RHS	Cum	2	118.00	0.15	0.90	31.86		
	LHS	Cum	2	118.00	0.15	0.90	31.86		
	10th B Cross Road	Cum	4	219.00	0.15	0.90	118.26		
	14th B cross Road B Sector	Cum	4	224.00	0.15	0.90	120.96		
	15th B Cross Road	Cum	4	310.00	0.15	0.90	167.40		
						Sub Total		1568.97	
	New Culvert								
	Bottom Raft								
	14th B cross Road B Sector	Cum	1	8.20	1.50	0.20	2.46		
	Side Walls								
	14th B cross Road B Sector	Cum	2	8.20	0.20	0.90	2.95		
						Sub Total		5.41	

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Area weightage 6%	400.20							
	Sub Total	7070.20							
	Total						1574.38	7070.20	11131195.62
7	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.6				1568.97		
		kg	Steel assumed 60Kg/Cum of Concrete				94138.20		
		tonne					94.14		
	For Culvert	Cum	From item no.6				5.41		
		kg	Steel assumed 90Kg/Cum of Concrete				487.08		
		tonne					0.49		
	Basic rate	61365.00							
	Area weightage 6%	3681.90							
	Sub Total	65046.90							
	Total						94.63	65046.90	6155081.13
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Provide 50% for Missing/Damaged	Sqm	From item no.2				1939.50		
	Data Rate	2337.00					1939.50	2337.00	4532611.50
	Total								
9	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha								
	New Culvert								
	14th B cross Road B Sector	Sqm	1	8.20	1.50		12.30		
	Data rate	5418.00					12.30	5418.00	66,641.40
	Total								
10	Removing and resetting of kerb stones								
	9th B main Road B sector	m	2	198.00			396.00		
	8th B main Road	m	2	232.00			464.00		
	11th B cross Road	m	2	155.00			310.00		
	11th B main Road	m		241.00			482.00		
	10th B main Road	m							
	RHS	m	1	240.00			240.00		
	LHS	m	1	240.00			240.00		
	13th B cross Road	m							
	RHS	m	1	118.00			118.00		
	LHS	m	1	118.00			118.00		
	10th B Cross Road	m	1	219.00			219.00		

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	14th B cross Road B Sector	m	2	224.00			448.00		
	15th B Cross Road	m	2	310.00			620.00		
						Total	3655.00		
	Deduct 50% for Missing/Damaged						1827.50		
	Consider 50% Qnty for Removing & Refixing						1827.50		
	Basic rate	99.00							
	Area weightage 6%	5.94							
	Sub Total	104.94							
	Total						1827.50	104.94	191777.85
11.00	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	9th B main Road B sector	Cum	2	198.00	0.20	0.10	7.92		
	8th B main Road	Cum	2	232.00	0.20	0.10	9.28		
	11th B cross Road	Cum	2	155.00	0.20	0.10	6.20		
	11th B main Road	Cum	2	241.00	0.20	0.10	9.64		
	10th B main Road	Cum							
	RHS	Cum	1	240.00	0.20	0.10	4.80		
	LHS	Cum	1	240.00	0.20	0.10	4.80		
	13th B cross Road	Cum							
	RHS	Cum	1	118.00	0.20	0.10	2.36		
	LHS	Cum	1	118.00	0.20	0.10	2.36		
	10th B Cross Road	Cum	2	219.00	0.20	0.10	8.76		
	14th B cross Road B Sector	Cum	2	224.00	0.20	0.10	8.96		
	15th B Cross Road	Cum	2	310.00	0.20	0.10	12.40		
	Basic rate	5422.00							
	Area weightage 6%	325.32							
	Sub Total	5747.32					77.48	5747.32	445302.35
	Total								
12.00	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
				From item no.7			1827.50		
	Provide 50% qnty for missing and Damaged	m					219.00		
	New kerb stone		1	219.00					
	10th B Cross Road	m				Sub Total	2046.50		
							2046.50		
	Total length					Total Length/0.45	4547.78		
	No of Kerb Stones	Nos					4548		
	Total	Nos							
	Basic rate	408.00							
	Area weightage 6%	24.48					4548.00	432.48	1966919.04

No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
8.00	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Item no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	9th B main Road B sector	Sqm	2	198.00		0.40	158.40		
	8th B main Road	Sqm	2	232.00		0.40	185.60		
	11th B cross Road	Sqm	2	155.00		0.40	124.00		
	11th B main Road	Sqm	2	241.00		0.40	192.80		
	10th B main Road	Sqm							
	RHS	Sqm	1	240.00		0.40	96.00		
	LHS	Sqm	1	240.00		0.40	96.00		
	13th B cross Road	Sqm							
	RHS	Sqm	1	118.00		0.40	47.20		
	LHS	Sqm	1	118.00		0.40	47.20		
	10th B Cross Road	Sqm	2	219.00		0.40	175.20		
	14th B cross Road B Sector	Sqm	2	224.00		0.40	179.20		
	15th B Cross Road	Sqm	2	310.00		0.40	248.00		
	Basic rate	80.00							
	Area weightage 6%	4.80							
	Sub Total	84.80					1549.60	84.80	131406.08
	Total							Grand Total	29314088.19
								GST Charges (12% of estimated cost)	3517690.58
								DPR Charges (1% of estimated cost)	350000.00
								Project management And Consultancy Charges(1% of estimated cost)	350000.00
								Tender Premium (5% of estimated Cost)	1465704.41
								Miscellenious and rounding	2516.82
								Total Amount	35000000.00
								RUPEES THREE CRORE FIFTY LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP